

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: June 6, 2001, 19:42:49 ; Search time 3282.2 Seconds  
(without alignments)  
9558.578 Million cell updates/sec

Title: US-09-494-297-1

Perfect score: 2274  
Sequence: 1 atgaaaaaacaaggttcc.....ggataagaacaacatgactag 2274

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 13168883 segs, 6898233199 residues

Total number of hits satisfying chosen parameters: 26337766

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

Pending Patents, NA, Main:\*

1: /cgnl\_7/ptodata/1/pna/US095A\_COMB.seq.\*  
2: /cgnl\_7/ptodata/1/pna/US06\_COMB.seq.\*  
3: /cgnl\_7/ptodata/1/pna/US07\_COMB.seq.\*  
4: /cgnl\_7/ptodata/1/pna/US08\_COMB.seq.\*  
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6: /cgnl\_7/ptodata/1/pna/US082\_COMB.seq.\*  
7: /cgnl\_7/ptodata/1/pna/US083\_COMB.seq.\*  
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42: /cgnl\_7/ptodata/1/pna/US099I\_COMB.seq.\*  
43: /cgnl\_7/ptodata/1/pna/US099J\_COMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	58.8	2.6	535	28 US-09-705-926-16876	Sequence 16876, A
2	58.2	2.6	425	51 US-60-197-872-73058	Sequence 73058, A
3	57.8	2.5	617	22 US-09-553-094-12310	Sequence 12310, A
4	56.6	2.5	4677	1 PCT-US99-26796-392	Sequence 392, App
5	56.6	2.5	32382	26 US-09-662-254-27	Sequence 27, App
6	56	2.5	11922	1 PCT-US99-26796-330	Sequence 320, App
7	55.6	2.4	591	25 US-09-654-617-428715	Sequence 428715, A
8	55.6	2.4	591	27 US-09-684-016-428715	Sequence 428715, A
9	55.4	2.4	570	22 US-09-565-306-26113	Sequence 26113, A
10	55.4	2.4	636	18 US-09-406-292A-4371	Sequence 4371, App
11	53.8	2.4	5940	1 PCT-US99-26796-238	Sequence 238, App
12	53.8	2.4	10721	38 US-60-068-228-335	Sequence 325, App
13	53.8	2.4	10736	35 US-60-038-081-318	Sequence 318, App
14	53.8	2.4	10736	36 US-60-046-933-323	Sequence 323, App
15	53.6	2.4	1748	24 US-09-620-392-14063	Sequence 14063, A
16	53.6	2.4	1748	28 US-09-702-134-46187	Sequence 46187, A
17	53.6	2.4	1748	46 US-60-144-351-2763	Sequence 2763, App
18	52.4	2.3	7218	8 US-08-466-194-14	Sequence 14, App
19	52.4	2.3	989	17 US-09-397-761A-7729	Sequence 2729, App
20	52.2	2.3	50000	26 US-09-662-254-26	Sequence 2503, App
21	51.4	2.3	712	17 US-09-397-761A-77160	Sequence 77160, A
22	51.4	2.3	957	18 US-09-457-658-2159	Sequence 2159, App
23	51.2	2.3	957	25 US-09-652-127-5864	Sequence 5864, App
24	51.2	2.3	798	52 US-60-207-458-38621	Sequence 38621, A
25	51.2	2.3	1998	1 PCT-US99-26796-345	Sequence 345, App
26	51.2	2.3	573	53 US-60-211-750-9818	Sequence 9818, App
27	51.2	2.3	902	29 US-09-739-449-1929	Sequence 1929, App
28	51.2	2.3	1527	1 PCT-US99-26796-254	Sequence 254, App
29	50.8	2.2	660	18 US-09-406-292A-524	Sequence 524, App
30	50.6	2.2	445	52 US-60-207-458-145132	Sequence 145132, A
31	50.4	2.2	470	52 US-60-209-830-1978	Sequence 1978, App
32	50.2	2.2	484	17 US-09-304-517A-27160	Sequence 27160, A
33	50.2	2.2	484	18 US-09-440-687-24108	Sequence 24108, A
34	50.2	2.2	484	25 US-09-654-617-73974	Sequence 73974, A
35	50.2	2.2	484	27 US-09-684-016-330054	Sequence 330054, A
36	50.2	2.2	484	46 US-60-144-084-34889	Sequence 34889, A
37	50.2	2.2	15016	1 PCT-US99-01972-60	Sequence 60, App
38	50	2.2	423	17 US-09-394-745-44113	Sequence 44113, A
39	50	2.2	423	22 US-09-565-306-68010	Sequence 68010, A
40	50	2.2	423	25 US-09-654-617-330054	Sequence 330054, A
41	50	2.2	423	27 US-09-684-016-330054	Sequence 330054, A
42	49.8	2.2	484	51 US-60-197-872-73247	Sequence 73247, A
43	49.8	2.2	86748	21 US-09-534-859-664	Sequence 664, App
44	49.8	2.2	594	52 US-60-207-458-60491	Sequence 60491, A
45	49.8	2.2	621	25 US-09-652-109-5731	Sequence 5731, App



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QY 2051 aagcctataaggttaagtaataagcgaagtagcaatgtctacagttcaaaaacg 2110
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Db 357 aagaaaaaaataaaaaaaagaaaaaaagaaaaaaagaaaaaaagaaaaaaata 416
QY 2111 gatacaagtagtagacactgtcttggaaataaaga 2153
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Db 417 aaaaaaagtaataataaaaaaataaaaaaata 459

RESULT 4
PCT-US99-26796-392
; Sequence 392, Application PC/TUS9926796
; GENERAL INFORMATION:
; APPLICANT: United States Government as Represented by the
; APPLICANT: Secretary of the Navy
; TITLE OF INVENTION: Chromosome 2 Sequence of Human Malaria Parasite
; TITLE OF INVENTION: Plasmodium Falciparum and Proteins of Said
; TITLE OF INVENTION: Chromosome Useful in Anti-malarial Vaccines and
; TITLE OF INVENTION: Diagnostic Reagents
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: PCT/US99/26796
; CURRENT FILING DATE: 1999-11-05
; NUMBER OF SEQ ID NOS: 420
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 392
; LENGTH: 4677
; TYPE: DNA
; ORGANISM: Plasmodium falciparum
PCT-US99-26796-392

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Query Match      2.5%; Score 56.6; DB 1; Length 4677;
Best Local Similarity 43.5%; Pred. No. 0.18;
Matches 416; Conservative 0; Mismatches 529; Indels 12; Gaps 3;

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QY 1084 tttaaggttgaagctggcaaggtgtatatactattgtatgaaacagattgaaatccc 1143
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Db 3256 tcttgatttaaaagactcttgaagaagatataatataaagaagtaaaagaaactt 3315
QY 1144 aataaagatagtagagcttaccagtagaagcatatgatttgaagaattagc 1203
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Db 3316 gaagtgaaattttgaagattataaagaattaaaacttgaacagatttttagaa 3375
QY 1204 gtttaactacacaaactatgcaaaattttatgtcaaaaataaataaagtga 1263
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Db 3376 gagaaaaaagaataagaagaatcatttgaaaaaattcgaaagaagatgagaata 3435
QY 1264 caggtgtctatgtcttaattcagatctaaaatctccacagacttgaagatgtg 1323
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Db 3436 aagatcttgaagcagatataataaagaagatcttcatltagaagttgaaagaaaa 3495
QY 1324 aaaaacatgactccagacttaccacagagagaagtaaaatatacaccatttgcagtc 1383
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3496 aaatagaagaagatcacgaattaaaagaagagtagaa-----cataataagtgt 3549
QY 1384 gacctcttaaatatactgtgaaccagaagataccgactcctgacacttcttaaacat 1443
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3550 gatgcacataaaagtttgaagaagagatgatttagaagaagtagatgtttaaaga 3609
QY 1444 atcaaaaaagtaattggaagaggttaccagggaaaaagacaagcattgagatagt 1503
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Db 3610 agtataattagaatgtttaaaggagatagtgaattagggagatagtgaagaagttta 3669
QY 1504 ccaactgagacaactgtgctgcgctactcagtttagcatalattattcactag 1563
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Db 3670 gaagatgttaacgcgaacttgggaagaagagttgatactcttaagaagtgtttactagt 3729
QY 1564 gctgaattagataagataaactaaagaactatcagtgttttgagacatgaatag 1623
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Db 3730 gc---atgagatgtgataagaacaaatgaacaaagaacaaagctcaagacctaa 3786
QY 1624 actttagcagttgctcaaaaactctttagaatacgtcacaagatagtaactctcacagcta 1683

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Db 3787 ttggaagaagttatttaaaagaaggtttaagaagaacccaagaataaaatacaaa 3846
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QY 1684 actgacctgatttcttattccgataaacaataataatcattttagaactcag 1743
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Db 3847 aagaagaagttgattttagtaagaagacccaagaagtagaagttgaa 3906
QY 1744 tggcatcagaagtttagttatattatcgtatggaagataaaaaagaagttact 1803
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Db 3907 atgaagaagatagatagatagatagagaagatgtagaagaagatagaaga 3966
QY 1804 gtaactcataatttaacattggaagaaacggtgactggttagctcgtgtacagactaa 1863
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3967 gataaagttgaagatataagaagaatataagatagaatagaagaagaatagtgaa 4026
QY 1864 gattccatttgaatttaataaaataaagaacaaagtcttctcacaactgt 1923
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 4027 gacaaagatgaagttatagtttaattagtcacaaaagaagaaacgactg---aaaagtt 4083
QY 1924 aaacagataaaacaacactcgaattaaagatgtaaaagcaacatttaaacat 1983
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 4084 aagaagaaaaaagaataatagaaaaaaagttgaagaagtgtagtgccttaaaaa 4143
QY 1984 ggggaagtttaacacttcaagtttaccagaagttattcttactgtcacaaga 2040
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Db 4144 cagtagacgaagtaagtaataatgttcaaaaaattgataaagaagttgataaga 4200

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RESULT 5
US-09-662-254-27
; Sequence 27, Application US/09662254
; GENERAL INFORMATION:
; APPLICANT: Moyer, Richard W.
; APPLICANT: Yi, Li
; APPLICANT: Bawden, Alison L.
; TITLE OF INVENTION: Materials and Methods for Delivery and Expression of Heterol
; TITLE OF INVENTION: in Vertebrate Cells
; FILE REFERENCE: UF-221C1X1
; CURRENT APPLICATION NUMBER: US/09/662,254
; CURRENT FILING DATE: 2000-09-14
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 27
; LENGTH: 32392
; TYPE: DNA
; ORGANISM: Amsacta moorei entomopoxvirus
US-09-662-254-27

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Query Match      2.5%; Score 56.6; DB 26; Length 32392;
Best Local Similarity 44.0%; Pred. No. 0.32;
Matches 427; Conservative 0; Mismatches 534; Indels 10; Gaps 4;

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Db 7205 tcttgaagtaaaaaattcatatattgaagatgataaaatgttatatatagttaaaaaa 7264
QY 1125 aaacagattgaataatcccaataagagatagtagccttactcagtagaagcatata 1184
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 7265 tttaaatltttaaanaataatagatctaaattgaattatattctatattgaagattat 7324
QY 1185 tgatttgaagaatttagcgttttaactacacaaaactatgcanaaatttattatgc 1244
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 7325 aaatttaaatatataagtggtggaacgaaaaaacttatataatagtaaatatttaa 7384
QY 1245 aataaagaatgaattcacaggtgtcattgcttgaattgaagttcaaaatccacac 1304
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 7385 aaatagtataatgaactatagaaatttttaatatattatataatgaatggtttgat 7444
QY 1305 agac---tctgaagaatggtgggaacaaatgaatccagactttaaacaagagaat 1361
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Db 7445 aaacatatgtttaaataattttaaagaactaatttaataataatgtttagatataa 7504

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OY	1362	atgaaccatattgcagcggctgcgac--ccctttaaatactacgctggaacccagagatccc	1415
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OY	1420	gattcctgacacct--ccttaaacacatcaaaaaagtaattggaagaagggtttacagggaa	1476
Db	7565	tataaatacatttggaattatttaacttaacttaataataaattatctatatttataacaa	7624
OY	1477	aagaagacaagctatttgatgatagtgtctcaactgagacaaattcgtgcgctcctcag	1536
Db	7625	aattaatagataatgataatatttaattcatctcgaaattcacaaatttaaatattgttac	7684
OY	1537	ttagcaatatatttttccaactgatagtgtgcgaattagataagaaactaaagacat	1596
Db	7685	taataatataattgatttttaatttaatttaaaaaactggttaatacaaaatatatgaatt	7744
OY	1597	catgctttcggagacatgaaatgatagtactgttagcagcgttgcataaactcctgttagaac	1656
Db	7745	aataaataataataaaaaaataaataacagcttcttgatgtaataataataataaagttta	7804
OY	1657	gtctaaagatagtaactccaccagctcaactgaactgactgattcttattccgataacat	1716
Db	7805	aagtttattatcatt--aaaaattgaaataatagatatgataatgataattgaaaaatcagt	7862
OY	1717	aaatatcaatcctcttaattggaactcagttgcatccagaagaattgattgataattcgt	1776
Db	7863	aatttaactactattggaattgatacttaacttaaatatgataattgataagtaataataattt	7922
OY	1777	atggaagataaaaaagaagctatacctgtatacctcataatttaacatttgaagaaaaagctg	1836
Db	7923	atagaataataatttaatttaattcgaatttaaatattgataataatataataataata	7982
OY	1837	actggtttagctggtgacgaactaaagattccattcattggaattgaaattaaanaatat	1896
Db	7983	aattcctttaaagttttaaaaaataaaaaaataatctcatataaaaaacaacatatttt	8042
OY	1897	aagcaagaattgcttctccaactglttaaaaacagataaaaaacaacactgaaattaaagt	1956
Db	8043	gataataaacattatattacttaacttaaatatttaattatattatataataataataat	8102
OY	1957	ggtataagaacacatttaatttaaacactggggaagtttaacctcaagtttaccagaa	2016
Db	8103	ataaagatatataatttttaagatatlttaaaaaataatattgatttatatataatagat	8162
OY	2017	ggtatctccta 2027	
Db	8163	tattatattcca 8173	
RESULT 6			
PCT-US99-26796-320			
: Sequence 320, Application PC/RUS9926796			
: GENERAL INFORMATION:			
: APPLICANT: United States Government as Represented by the			
: APPLICANT: Secretary of the Navy			
: TITLE OF INVENTION: Chromosome 2 Sequence of Human Malaria Parasite			
: TITLE OF INVENTION: Plasmodium falciparum and Proteins of Said			
: TITLE OF INVENTION: Chromosome Useful in Anti-malarial Vaccines and			
: FILE REFERENCE:			
: CURRENT APPLICATION NUMBER: PCT/US99/26796			
: CURRENT FILING DATE: 1999-11-05			
: NUMBER OF SEQ ID NOS: 420			
: SOFTWARE: PatentIn Ver. 2.1			
: SEQ ID NO 320			
: LENGTH: 11922			
: TYPE: DNA			
: ORGANISM: Plasmodium falciparum			
PCT-US99-26796-320			

	Matches	380;	Conservative	0;	Mismatches	540;	Indels	0;	Gaps	0;
QY	988	aatgatatctggagaagaattgaaactlccagttggaacttaacttaacttaactgaattgaat	1047							
Db	10261	aatacaaatatacaataaanaattctgtacagcaataacataatgagtcgatatatcaat	10320							
QY	1048	tctccagctggtatagatctgcgagagccaactcacttttaagttggaagctggcaagtg	1107							
Db	10321	gatgcataatacctaagatgctatataatcataatgacgtatataatcatatgatgca	10380							
QY	1108	tatactatattgtagtgaanaacagatltganaatccccaataagagatgtagaccttac	1167							
Db	10381	tataatcataatgacgtacataatcatataatgattgcatataatcataatgatgcataat	10440							
QY	1168	tcaatgagaagcctataatgattttgaagaattttagcgtttaactcacacaacacatgca	1227							
Db	10441	cataatlgatgcataataatcataatgagatgagataatcataatgatacagatatacatg	10500							
QY	1228	aaattttatctgcacaaaataaagaatggaagttcaacagttgctatctgcttaatgca	1287							
Db	10501	gataattataattcttcataataataaagaacttaataaattatcgcgtatccatgatgag	10560							
QY	1288	gacttaaaatctccaccagactctgaaagtgtgggaaaaacaatgactccagactttaca	1347							
Db	10561	gaagatatattccaagatataatataatacaacagatgtattgtaatatcaaatataat	10620							
QY	1348	acaagagaagatnaataacactcatattgttagtgctgactcctttaaatatcgttgaa	1407							
Db	10621	tttcatacaataataaataatatacaaaaacagctcccaaggataatagccatactatactagt	10680							
QY	1408	ccaagagataccgactctctgcacacttctcttaaacacatcaaaaagttaatgagaaggt	1467							
Db	10681	tgggttgatgataaatttaataatcatccatttatcttctaataaagaanaatatuccaaa	10740							
QY	1468	tacagggaanaagsgaacagctatgagtatagtggtctcaactcgagacacaaattgcgtgcg	1527							
Db	10741	aaaaaaaacaaaacaaaacaaaataaanaatagagaagaagaaaaaagaanaaatgaa	10800							
QY	1528	gctactcagttgcacatatattatttccactgttagtgcgaattgatagaataaaca	1587							
Db	10801	attatacataatgaaagtgaaatattctttagaagcattttaatcgtgttagggaatata	10860							
QY	1588	aaagactacatcagtttttggagacatgaaatgatatgactttagcagttgctaaatcctt	1647							
Db	10861	tcagatcgtatttaatttttatatttttaaaacatcgaaaaaataatattgcttagctatttt	10920							
QY	1648	gtagaatacgtctcaagaatgtaactcctccacagctaaactgacctgattctttatccg	1707							
Db	10921	gaagataccatactatattgtgaactactacaanaaatacttatattgtaataattat	10980							
QY	1708	aatacaataaataatcaactctcttatttggaaactgtagcacccogaagaatttagttagt	1767							
Db	10981	aataataataaattcttctaatactttaatcgttaaaaggttgaacaatcattttattat	11040							
QY	1768	attattcgtatggaagataaaaaagaagtgtacacgtgtacactcataatttaacattgaga	1827							
Db	11041	ataaatagatatttggaaaattcattcatttcgaaaaagaagtattatatatcatcatagtt	11100							
QY	1828	aaaacggtactggttttagctggcgacagaactaaagaattccatttggaaatgaaatga	1887							
Db	11101	ccattatgaattaatgcatcaacaatgctactctaataatcaagaatanaaaaaaanaaaa	11160							
QY	1888	aaaaataataagcaagaatt 1907								
Db	11161	aaatacaaaaaatlgact 11180								

ORGANISM: Plasmodium falciparum	
CT-US99-26796-320	
Query Match	2.5%; Score 56; DB 1; Length 11922
Best Local Similarity	41.3%; Pred. No. 0.32;

RESULT 7  
US-09-654-617-428715/C  
; Sequence 428715, Application US/09654617  
; GENERAL INFORMATION:  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Liu, Jingdong

```
; TITLE OF INVENTION: Annotated Plant Genes
; FILE REFERENCE: 38-21(15097)D
; CURRENT APPLICATION NUMBER: US/09/654,617
; CURRENT FILING DATE: 2000-09-05
; NUMBER OF SEQ ID NOS: 463173
; SEQ ID NO 428715
; LENGTH: 591
; TYPE: DNA
; ORGANISM: Oryza sativa
US-09-654-617-428715
```

```
Query Match 2.4%; Score 55.6; DB 25; Length 591;
Best Local Similarity 45.8%; Pred. No. 0.16;
Matches 230; Conservative 0; Mismatches 269; Indels 3; Gaps 1;
```

```
QY 1659 tcaagatagatccctccacagctgacctgattcttcttaaccgaatacaataa 1718
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 567 TTTAAATATATATATATATATATATATATATATATATATATATATATATAT 508
QY 1719 atalcaatctctatggaactcagtgccatccagaagattgattatctgcat 1778
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 507 ATATTTAAATATATATATATATATATATATATATATATATATATATATAT 448
QY 1779 ggaagataaaaaagaatttacctgtaaccttaattaccttgagaaaaacgctgac 1838
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 447 AAAATTTAAATATATATATATATATATATATATATATATATATATATATAT 388
QY 1839 tgggttcctgctgacagactaaagaattccattctgaattgaattaaataa 1895
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 387 ATTTATATATATATATATATATATATATATATATATATATATATATATAT 328
QY 1896 taagcaagaattgcttctccaactgtlaaacaagataaacaacctcgattaaaga 1955
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 327 TAAAAAATATATATATATATATATATATATATATATATATATATATATAT 268
QY 1956 tggtaagcacaaccttaatttaaacatggggaagtttaaccttaagttaccaga 2015
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 267 GTATTTAAATATATATATATATATATATATATATATATATATATATATAT 208
QY 2016 aggttattcttacctgccaagaacagattctgaagctataagtttaagttacag 2075
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 207 AATTATATATATATATATATATATATATATATATATATATATATATATAT 148
QY 2076 ccaagaagtagcaaatgctacagtttcaaaaaacagaataacaagtagagacactg 2135
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 147 ACAACATATATATATATATATATATATATATATATATATATATATATAT 88
QY 2136 ttgtgaataataaagagcct 2157
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 87 TTGCTAACATCTTAAAAACAT 66
```

```
RESULT 8
US-09-684-016-428715/C
; Sequence 428715, Application US/09684016
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: Annotated Plant Genes
; FILE REFERENCE: 38-21(15097)D
; CURRENT APPLICATION NUMBER: US/09/684,016
; CURRENT FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: US 09/654,617
; NUMBER OF SEQ ID NOS: 463173
; SEQ ID NO 428715
; LENGTH: 591
; TYPE: DNA
; ORGANISM: Oryza sativa
US-09-684-016-428715
```

```
Query Match 2.4%; Score 55.6; DB 27; Length 591;
Best Local Similarity 45.8%; Pred. No. 0.16;
Matches 230; Conservative 0; Mismatches 269; Indels 3; Gaps 1;
```

```
QY 1659 tcaagatagatccctccacagctgacctgattcttcttaaccgaatacaataa 1718
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 567 TTTAAATATATATATATATATATATATATATATATATATATATATATATAT 508
QY 1719 atalcaatctctatggaactcagtgccatccagaagattgattatctgcat 1778
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 507 ATATTTAAATATATATATATATATATATATATATATATATATATATATAT 448
QY 1779 ggaagataaaaaagaatttacctgtaaccttaattaccttgagaaaaacgctgac 1838
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 447 AAAATTTAAATATATATATATATATATATATATATATATATATATATATAT 388
QY 1839 tgggttcctgctgacagactaaagaattccattctgaattgaattaaataa 1895
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 387 ATTTATATATATATATATATATATATATATATATATATATATATATATAT 328
QY 1896 taagcaagaattgcttctccaactgtlaaacaagataaacaacctcgattaaaga 1955
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 327 TAAAAAATATATATATATATATATATATATATATATATATATATATATAT 268
QY 1956 tggtaagcacaaccttaatttaaacatggggaagtttaaccttaagttaccaga 2015
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 267 GTATTTAAATATATATATATATATATATATATATATATATATATATATAT 208
QY 2016 aggttattcttacctgccaagaacagattctgaagctataagtttaagttacag 2075
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 207 AATTATATATATATATATATATATATATATATATATATATATATATATAT 148
QY 2076 ccaagaagtagcaaatgctacagtttcaaaaaacagaataacaagtagagacactg 2135
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 147 ACAACATATATATATATATATATATATATATATATATATATATATATAT 88
QY 2136 ttgtgaataataaagagcct 2157
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 87 TTGCTAACATCTTAAAAACAT 66
```

```
RESULT 9
US-09-565-306-26113
; Sequence 26113, Application US/09565306
; GENERAL INFORMATION:
; APPLICANT: Andersen, Scott E.
; APPLICANT: Conner, Timothy W.
; APPLICANT: Rajgopal, V.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated w
; FILE REFERENCE: 38-21(15459)C
; CURRENT APPLICATION NUMBER: US/09/565,306
; CURRENT FILING DATE: 2000-05-04
; NUMBER OF SEQ ID NOS: 83523
; SEQ ID NO 26113
; LENGTH: 570
; TYPE: DNA
; ORGANISM: Zea mays
; OTHER INFORMATION: Clone ID: CC-Zm1e189094g12d1
US-09-565-306-26113
```

```
Query Match 2.4%; Score 55.4; DB 22; Length 570;
Best Local Similarity 47.9%; Pred. No. 0.18;
Matches 193; Conservative 0; Mismatches 206; Indels 4; Gaps 1;
```

```
QY 1752 agaagatttgatcttattcgtatggaagataaaaaagaagtttacctgtaacta 1811
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 59 ataaataataataataataataataataataataataataataataataataa 118
QY 1812 taatttaacattggaacacgctgactggcttagcctgctgacgaacaaagattcca 1871
   ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 119 ttaaaaaataataataataataataataataataataataataataataataa 178
```

QY 1872 ttctggaat----tgnatttaaaaaataaagaagaatttgccttctcaactgtttaa 1927  
 Db 179 tataaaaaataataaataataaataaataaataaataaataaataaataaataaataa 238  
 QY 1928 cagataaaaaaacctcogaatttaagaatggttaagcaaccataatttaaacatg 1987  
 Db 239 aaaaataataatataaaaaaaataaataaaaaaaataaaaaataaataaaaaaat 298  
 QY 1988 aaagtttaaacacttaaggtttaccgaaggttatcttactcttgaagaagaagtt 2047  
 Db 299 aaaaataaatattatataataataataaaaaataaaaaataaacaacaataataa 358  
 QY 2048 ctgaaggtctaaggttaaggttaacagcaagatgcaaatgtctacaggtttcaaaa 2107  
 Db 359 ttaaaaaataataaaaaaatttaatatataatgaagtaaaaaaaatatatttaacta 418  
 QY 2108 caggataacaagatgatgagacctgtgctttggaataataa 2150  
 Db 419 taataataaaaaataaaaaataataataattatataacaa 461

```

RESULT 10
US-09-406-292A-4371/c
; Sequence 4371, Application US/09406292A
; GENERAL INFORMATION:
; APPLICANT: Wang, Rod A.
; APPLICANT: Dean, Ralph A.
; TITLE OF INVENTION: GENOMIC DNA SEQUENCES OF ORYZA SATIVA AND USES
; TITLE OF INVENTION: THEROOF
; FILE REFERENCE: A-30646A
; CURRENT APPLICATION NUMBER: US/09/406,292A
; CURRENT FILING DATE: 1999-09-24
; PRIOR APPLICATION NUMBER: 60/101,712
; PRIOR FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 5007
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 4371
; LENGTH: 636
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: source
; LOCATION: (1)..(636)
; OTHER INFORMATION: /clone="nbx00012dhl0.g"
; NAME/KEY: misc_feature
; LOCATION: (1)..(118)
; OTHER INFORMATION: High quality region
; NAME/KEY: misc_feature
; LOCATION: (1)..(636)
; OTHER INFORMATION: n = a, t, c or g
; US-09-406-292A-4371

```

Query Match	2.4%;	Score 55.4;	DB 18;	Length 636;
Best Local Similarity	44.9%;	Pred. No. 0.18;		
Matches 206; Conservative	0;	Mismatches 253;	Indels 0;	Gaps 0;

[illegible]

Oy	1948	ttaaaatggttaaagaacctaatttaaacagagggaagtlttaacctaagct	2007
Db	326	TATTTACATTAGAAAAAATAAAAAAAAAAAATTAACAACAAAATTGATGAAAAAAT	267
Oy	2008	ttaccagaagtgattcttactcctgtccaagaacaagatttcgaagctataagttaa	2067
Db	266	AAGAAAAATATATATATATATATATATTAATAAAGAATTAGAAGAACMAAAATTAATA	207
Oy	2068	gttaatgcacaagaagtagcaaatgctcacagttccaacaaacaggaatacaagtgtag	2127
Db	206	TTAATATGAAAAAAATATATTAATAAACAANAATGAAAAAATATCAAAATATATAAAAAAAT	147
Oy	2128	aacttgctttgaaaataataaagcgctgtgtccct	2166
Db	146	ATAGATAGTAAAAAATAACAAANANACCCCGCTGCCT	108

```

RESULT 11
PCT-US99-26796-238
; Sequence 238, Application PC/TUS9926796
; GENERAL INFORMATION:
; APPLICANT: United States Government as Represented by the
; APPLICANT: Secretary of the Navy
; TITLE OF INVENTION: Chromosome 2 Sequence of Human Malaria Parasite
; TITLE OF INVENTION: Plasmodium falciparum and Proteins of Said
; TITLE OF INVENTION: Chromosome Useful in Anti-malarial Vaccines and
; TITLE OF INVENTION: Diagnostic Reagents
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: PCT/US99/26796
; CURRENT FILING DATE: 1999-11-05
; NUMBER OF SEQ ID NOS: 420
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 238
; LENGTH: 3940
; TYPE: DNA
; ORGANISM: Plasmodium falciparum
PCT-US99-26796-238

```

Query Match	2.4%	Score 53.8	DB 1	Length 5940
Best Local Similarity	44.7%	Pred. No. 0.76		
Matches 294	Conservative	0	Mismatches 357	Indels 6
				Gaps 2

OY	1477	aagagacaagctatttggtatgtagtgcctaacgagacacacattggtgcgctactcag	1530
Db	73	aatgaggaagataatgtaaaataatgtaaaaggggaaaaaagcgatccatggtataaaa	132
OY	1557	ttagcaataatttttcctactgtaggcgcgaattagataagataaactaaagacat	1596
Db	133	ataatagaactaaaggaaaaagtaaaactaaataaaaatgataattcctttagtgat	192
OY	1597	catggttttgagacat---gaatgtagtactttagcagttgcctaactcctttagaa	165
Db	193	aatattaaatgggcacataataataataataataataataataatgataataatgat	252
OY	1654	taagctcaagatgataatccctccacagctaacgcacttgatttctttatccgataac	1713
Db	253	aacaataatgtataataatgataataataaagatacaataataatgatatataatgag	312
OY	1714	aataataatcatctcttattggaactcagttgcatccagagaagattttagtgataatt	1777
Db	313	aataataatgtataataataattttaataattatagagatggaatatcaaaaaatattata	372
OY	1774	cgtaatggaagataaaaagaagtatatcctgttaactcataatttaaacaltggaanaag	1833
Db	373	cataaagaacatggcgtcagaaaacccgcttaagagataactaaagcccttagttcgtg	432
OY	1834	gtgactggttttagctgtgttgacgaactaaagaattccatttggaaatgaaat	1893
Db	433	tcgataataattgtggaatttagcgaagtaanaatttgaagaatttagaaaagaattaaaga	492
OY	1894	aataagcaagaattgctttcttcaaacctgltaaaacagataaaaacaaacctgaaattaa	1955

Db 403 gtaaaaggtaagaatcattgataataatgctttctgaaaatacaaatlaaaagaagaagaat 552

1954 gatggtaaaagcaaccattaatlttaaacaatggggaaggtltaacactlcaaggttaca 2013

Db 553 ttgtgtaaacaaaataatgtatctgtaact---gaaaagaatactttttaccagaagaaa 609

QY 2014 gaaggttatcttcaactgtgcaagaagaacagatctctgaagcgtataaggtltaagttat 2073

Db 610 gaattagttatataataaaaagagaaaagaaatlaaagaaaagaataataataaa 669

QY 2074 agccaagaagtaacaaatgtctacagttlcaaaaacagataacaagltatgagaca 2130

Db 670 aaggaagaacaattcattataatagaanaaggtattttgaaaaaataaagaaga 726

```

RESULT 12
US-60-068-228-325
: Sequence 325 Application US/60068228
: GENERAL INFORMATION:
: APPLICANT: Lagace, Robert E.
: APPLICANT: Corley, Neil C.
: APPLICANT: Russo, Frank D.
: APPLICANT: Heath, Joe D.
: APPLICANT: Finney, Gregory L.
: TITLE OF INVENTION: NUCLEOTIDE SEQUENCES OF STAPHYLOCOCCUS
: EPIDERMIDIS GENOME, FRAGMENTS THEREOF, AND USES THEREOF
: NUMBER OF SEQUENCES: 466
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
: STREET: 3174 PORTER DRIVE
: CITY: PALO ALTO
: STATE: CALIFORNIA
: COUNTRY: USA
: ZIP: 94304
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: word Perfect 6.1 for Windows/MS-DOS 6.2
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/60/068,228
: FILING DATE: HERewith
: CLASSIFICATION:
: ATTORNEY/AGENT INFORMATION:
: NAME: CERRONE, MICHAEL C.
: REGISTRATION NUMBER: 39,132
: REFERENCE/DOCKET NUMBER: PM-0002-4 P
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (650) 855-0555
: TELEFAX: (650) 845-4166
: INFORMATION FOR SEQ ID NO: 325:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 10721 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: double
: TOPOLOGY: circular
: MOLECULE TYPE: genomic DNA
: IMMEDIATE SOURCE:
: CLONE: SEP1C326
: US-60-068-228-325

```

Query Match	2.48;	Score 53.8;	DB 38;	Length 10721;
Best Local Similarity	44.98;	Pred. NO. 0.9;		
Matches 196; Conservative	0;	Mismatches 241;	Indels 0;	Gaps 0;

QY 1707 gaataacaataataatcaatcctcttatcttgyaactcaagtcgcatccagaagaatttggtta 1766  
Db 1865 GATMAAGCTAAAGATPAACCTCAAGAGAGACTAAAGANAGCCGATTAATCATTTGACGA 1924A  
QY 1767 tatattcgtatgyaagataaaaaaagtataacctgtaactcataatctaacttgaq 1826

Db	1925	TCATATATAAAAAAGAAAGCTGATGTAATAAATAATTTAAAGCAAGATGATTTCTGATT	1984
Qy	1827	aaaaacggtgactggttctgctcggtgacagactaaagatttccatttggaaattgtaatt	1886
Db	1985	AACTATAAAAAAGTAAATCATCTATTAAAGCAAAATGTGATTTAAAGTACAAAAATTTAAAA	2044
Qy	1887	aaaaataataagcaagaatttgcttctcctaactggttaaacacagataaacaacactcgca	1946
Db	2045	GTTAAAGCAAAAGATGAAAGTTTCTTAAGCTTACTAAAAAAGCCGAANATTCATTTGAAGAA	2104
Qy	1947	atttaagaatgtaagaacacacattaatttaaacacatggtggaagtlttaacacttcaag	2006
Db	2105	ATACAAAGAAGTTTAAAGCAGATATATAAANAATTTNAAAGCAAGACAACTTCAGAAAA	2164
Qy	2007	tttaccagaaggtlacttcttactctgtlcaagaagacagattctgaagctataagttaa	2066
Db	2165	GCGCTTTAAGGCCAANAATTTAAAGTTTGGAAATTTAACAATGCTTAAAGCTGAAAAAAT	2224
Qy	2067	agttatatggcccaagaagtatgcaaatgtctacagtttcaaaaaacgagataaacagtgtga	2126
Db	2225	TTTTAAAGGGAAGATGAAATTTACTGCTTTAACTAAAAAAGTAAAAATCAAGCGCTTAATCA	2284
Qy	2127	gacacttgcttggaaa	2143
Db	2285	AAATAATGATTTGAAAA	2301

```

RESULT 13
US-60-038-081-318
: Sequence 318: Application US/60038081
:
: GENERAL INFORMATION:
: APPLICANT: Lagace, Robert E.
: APPLICANT: Corley, Neil C.
: APPLICANT: Russo, Frank D.
: TITLE OF INVENTION: NUCLEOTIDE SEQUENCES OF STAPHYLOCOCCUS
: TITLE OF INVENTION: EPIDERMIDIS GENOME, FRAGMENTS THEREOF, AND USES THEREOF
: NUMBER OF SEQUENCES: 514
:
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
: STREET: 3174 PORTER DRIVE
: CITY: PALO ALTO
: STATE: CALIFORNIA
: COUNTRY: USA
: ZIP: 94304
:
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/60/038,081
: FILING DATE:
: CLASSIFICATION:
: ATTORNEY/AGENT INFORMATION:
: NAME: CERRONE, MICHAEL C.
: REGISTRATION NUMBER: 39,132
: REFERENCE/DOCKET NUMBER: PM-0002P
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (415) 855-0555
: TELEFAX: (415) 845-4166
: INFORMATION FOR SEQ ID NO: 318:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 10736 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: IMMEDIATE SOURCE:
: CLONE: SE1C0318
:
: US-60-038-081-318

```

Query Match	2.48;	Score 53.8;	DB 35;	Length 10736;
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Job time: 8721 sec

```
Db 1406 AAAAAAAAAATTAATTATTAATTAATACAACTTAGAAAAAATATCTTAAGATAAAT 1347
Qy 1169 cagtagaagcatatgalttgaagaatttagcgltttaactacacaaactatgcaa 1228
    || || || || || || || || || || || || || || || || || || || || ||
Db 1346 CAAAAAAATATCAATAAATACTAAACATATATATATAAATAATATATAGATAT---A 1290
Qy 1229 aatttctatgcaaaaataaataatggaagttccacaggttgctatgctttaatgca 1288
    || || || || || || || || || || || || || || || || || || || || ||
Db 1289 AATTACATATACATATATATCATATTTAATAATAAATAATATCAAGTATTAATAATAT 1230
Qy 1289 acttaaatctccaccgactctgaagatggtggaaaaacatgaccgacttaca 1348
    || || || || || || || || || || || || || || || || || || || || ||
Db 1229 ATTAATATATATATATAAATAATATATATATATATAAATACTTAATAAATTAGA 1170
Qy 1349 caggagaagaataacatcacatctgcaagg--tcgtgacctcttaataatctgtaa 1406
    || || || || || || || || || || || || || || || || || || || || ||
Db 1169 AATTAAATTAAGAAATAATTAAATAAATAAATAAATAAATAAATAAATAAATAAATA 1110
Qy 1407 accaagagataccgactctgacactctcttaaacatatacaaaaaglaattggaagg 1466
    || || || || || || || || || || || || || || || || || || || || ||
Db 1109 AATATATACCATTTATATATATATAGAAAAATTAATAATATATAAATAAATAAATAAT 1050
Qy 1467 ttacagggaagaagcaagctatgagtagtgcctacatgagacacattgcgyc 1526
    || || || || || || || || || || || || || || || || || || || || ||
Db 1049 TATATTAGAAGAAAAATTAATAATATAGTGAATTAATAAATAAATAAATAAATAAT 990
Qy 1527 ggcctacagttgacaataattacttcaactga-----tagtgcgaaltgagaaga 1580
    || || || || || || || || || || || || || || || || || || || || ||
Db 989 ATATATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 930
Qy 1581 taaactaaagaactcatggttltggagacatgagatgacttagcagttgctaa 1640
    || || || || || || || || || || || || || || || || || || || || ||
Db 929 TAAATTAACCAATATATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAT 870
Qy 1641 aatccttgaatagacgtcacaagtagtaactccacagctaacatgacctgattctt 1700
    || || || || || || || || || || || || || || || || || || || || ||
Db 869 AAAAAATTAATAAATAATTAATAAATAATTAATAAATAAATAAATAAATAAATAAATAAT 810
Qy 1701 tattcgaataacaataataatcaatctctatctggaactcagtcgcatccagaagatt 1760
    || || || || || || || || || || || || || || || || || || || || ||
Db 809 ATATTAATAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 750
Qy 1761 agttgatattatctgtagaagataaagaagattatctgtaactcataatlaac 1820
    || || || || || || || || || || || || || || || || || || || || ||
Db 749 AAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 690
Qy 1821 attgagaaaaacggtgactggtttagctggtgacagaaactaaagattccaatttgaat 1880
    || || || || || || || || || || || || || || || || || || || || ||
Db 689 AATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 630
Qy 1881 tgaacttaaaaaataaagaagaatgcttctcaaacgtttaaacagataaacaaca 1940
    || || || || || || || || || || || || || || || || || || || || ||
Db 629 AAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 570
Qy 1941 cctcgaaatttaagaatgtagaagcaaccatttaataaacatgagggaagtttaacact 2000
    || || || || || || || || || || || || || || || || || || || || ||
Db 569 AATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 510
Qy 2001 tcaaggtttacagaaggttattcttactctgtcaagaagaacagattctgaaggtctaa 2060
    || || || || || || || || || || || || || || || || || || || || ||
Db 509 AAAAAATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 450
Qy 2061 ggttaagtttaatagccaagaagtagcaaatgctacagttcaaaaaacagaaataacaag 2120
    || || || || || || || || || || || || || || || || || || || || ||
Db 449 AAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 390
Qy 2121 tgatgagacactgcttcttgaaaataataaga 2153
    || || || || || || || || || || || || || || || || || || || || ||
Db 389 AAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 357
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